

CENTURION XP DUAL

INSTRUCTIONS FOR SAFE OPERATION



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1. READ THIS FIRST

The Centurion XP is a flameproof digital camera suitable for use in hazardous areas (Ex zones: potentially explosive environments).

Read and understand all Warnings and Cautions before using this product.

Liability

The technical specification of the camera complies with relevant European EEx standards (EN 60079-0 and EN60079-1).

The user is solely responsible for ensuring the equipment is suitable for the intended purpose and environments.

CorDEX Instruments will not be liable for any injury or damage resulting from unauthorized adjustments to, or dismantling of, the camera or for use with inappropriate applications or environments.

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Product design and specifications are subject to change without notice. This includes primary specifications, software, software drivers, and user's manual. The User Manual is a general reference guide for the product.

The manufacturer assumes no liability for any errors or discrepancies in the user manual.

2. SPECIAL CONDITIONS OF SAFE USE

(as defined by clause 29.2 (i) of EN 60079-0)

The conditions referenced in this section relate specifically to hazardous area applications and must be followed.

In accordance with clause 5.1 of EN 60079-1, the critical dimensions of the flamepaths are:

flamepath	maximum Gap (mm)	minimum L (mm)
Rear carriage/front carriage	0.04	14.0
Front carriage/ battery pack	0.04	15.0
LCD Window/rear carriage	0.1	14.0
Lense window/front carriage	0.1	14.0
Operating rod/ rear and front carriage	0.1	10


- This equipment must only be used where there is a low risk of mechanical impact.
- The equipment is manufactured in aluminium alloy, in Group I applications this equipment must not be utilised where there is a risk of thermite reaction frictional ignition.
- The Centurion XP Series digital camera must only be recharged in a non-hazardous area.
- Extreme Care should be taken to ensure that no damage is caused on flamepath between battery and camera. Ensure dowel location pins are engaged fully before tightening locking screws.
- Centurion XP Series digital camera incorporates a protected battery system with a replaceable fuse. This Fuse is only to be replaced with CorDEX Instruments Type CDX2341-201 fuse. Failure to do so will void the certification.
- Ensure that the Centurion XP series digital camera battery pack is secured using the screws provided. If the screws are lost, only replace with screws of the correct size and type. If in doubt, contact your nearest CorDEX Instruments representative.
- The Centurion XP Series digital camera is manufactured from aluminium alloy with less than 7% magnesium by weight and incorporates toughened glass windows. This should be taken into account when considering the end use application.
- The Centurion XP Series digital camera cannot be maintained in the field and must be returned to the manufacturer should repair or maintenance be required.
- USB communications with the Centurion XP Series digital camera must only occur within the non-hazardous area.

3. OPERATIONAL CAUTIONS

The cautions contained in this section do not relate specifically to safe use in hazardous area applications but should be followed to help prevent damage to the camera or personnel.

- Do not fire the flash close to anyone's eyes. This might cause damage to the person's eyesight.
- Keep out of the reach of children.
- A camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the camera. This might cause damage to the camera.
- Do not wrap the camera or place in cloth blankets.
- Use the camera in a well-ventilated place.
- Before you move the camera, disconnect the cords and cables.

4. CERTIFICATION

Model	Centurion XPG
Certificate No:	Sira 08ATEX1293X
Certificate Type:	0518 CE II 2 G  Ex d IIC T4 Gb
Ambient Temperature:	Tamb -20°C to +50°C
Power Supply:	1x CorDEX Instruments XP Battery pack. Part Number CDX-2341-801

EC DECLARATION OF CONFORMITY

	We hereby confirm the conformity of the equipment listed below with the directives of the Council of the European Community. The safety and installation instructions of the product documentation must be observed.
Model	Centurion XPG
European standards and directives:	
Low Voltage Directive 73/23/EC	EN60950
94/9/EC	EN60079-0; EN60079-1



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 08ATEX1293X** Issue: **0**

4 Equipment: **Centurion XP flameproof digital camera**

5 Applicant: **CorDEX Instruments Limited**

6 Address: Unit 6 Farfield
Main Road,
Wykeham
Scarborough
YO13 9QD
UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2006 EN 60079-1:2007
IEC 60079-0:2007 was used as guidance in respect of marking

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 G
Ex d IIC T4 Gb
Ta = -20°C to +50°C

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This certificate and its schedules may only be reproduced in its entirety and without change.

D R Stubbings BA MIET
Certification Manager



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